

## 01420980 EAST BRANCH DELAWARE RIVER ABOVE READ CREEK AT FISHS EDDY, NY

LOCATION.--Lat 41°58'34", long 75°10'16", Delaware County, Hydrologic Unit 02040102, on left bank 450 ft upstream from Read Creek, 0.87 mi upstream from bridge on County Highway 28, at Fishs Eddy, 3.9 mi downstream from Beaver Kill, and 11.3 mi upstream from the confluence of East and West Branches near Hancock. Water-quality sampling site at discharge station.

DRAINAGE AREA.--766 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1912 to current year. Prior to October 2001, published as East Branch Delaware River at Fishs Eddy (01421000).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 955.96 ft above NGVD of 1929. Prior to Sept. 27, 1928, nonrecording gage, Sept. 26, 1928 to Nov. 1, 1967, water-stage recorder at site 0.87 mi downstream at datum 5.0 ft lower, and Nov. 2, 1967 to Sept. 30, 2001, water-stage recorder 0.30 mi downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Subsequent to September 1954, entire flow from 371 mi<sup>2</sup> of drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to construction of Pepacton Reservoir, 53,300 ft<sup>3</sup>/s, Aug. 24, 1933, gage height, 20.60 ft, at former site and datum, from rating curve extended above 22,000 ft<sup>3</sup>/s; maximum discharge since construction of Pepacton Reservoir, 56,300 ft<sup>3</sup>/s, Sept. 18, 2004, gage height, 21.40 ft, from floodmark, from rating curve extended above 22,000 ft<sup>3</sup>/s; minimum daily discharge prior to construction of Pepacton Reservoir, 68 ft<sup>3</sup>/s, Aug. 28, 1949, minimum instantaneous discharge not determined; minimum discharge since construction of Pepacton Reservoir, 52 ft<sup>3</sup>/s, July 23, 1964, gage height, 1.16 ft, at former site and datum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 9, 1903, reached a stage of 23.6 ft, at former site and datum, from description obtained in April 1939, from local residents who had experienced the flood (discharge, about 70,000 ft<sup>3</sup>/s, from rating curve extended above 22,000 ft<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 56,300 ft<sup>3</sup>/s, Sept. 18, gage height, 21.40 ft, from floodmark, from rating curve extended above 22,000 ft<sup>3</sup>/s; minimum instantaneous discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,810	6,040	4,390	2,750	e350	e290	1,800	1,840	1,570	e330	1,540	1,260
2	3,090	4,610	3,330	2,250	e340	e360	2,170	1,510	1,970	380	1,390	934
3	2,620	3,730	2,550	2,150	e330	e680	1,780	1,950	1,760	383	1,070	762
4	2,740	3,100	2,040	2,740	e320	e1,100	1,600	1,720	1,390	355	888	581
5	3,520	2,760	1,740	3,530	e320	e1,800	1,400	1,510	1,130	370	1,050	559
6	2,820	2,700	1,560	3,110	e310	4,530	1,210	1,560	1,060	443	845	542
7	2,370	2,040	1,340	2,570	e310	4,630	1,400	1,360	935	474	718	505
8	1,870	1,640	1,120	2,220	e300	2,970	1,540	1,180	783	542	649	580
9	1,570	1,600	978	e1,800	e300	2,100	1,320	1,080	705	443	584	1,750
10	1,330	1,610	864	e1,400	e300	1,630	1,050	1,060	714	393	552	1,980
11	1,140	1,500	4,700	e1,200	e300	1,400	866	1,680	612	370	556	1,170
12	980	1,540	7,680	e1,100	e290	1,330	745	1,480	534	362	1,310	923
13	843	1,400	5,170	e1,000	e280	1,110	1,050	1,960	505	408	9,630	821
14	736	1,250	3,870	e920	e270	e1,000	1,820	1,840	499	485	4,530	749
15	2,320	1,130	3,300	e850	e260	e950	1,900	1,680	491	808	3,110	706
16	2,160	1,030	2,550	e650	e260	e900	1,890	1,570	453	767	7,160	659
17	1,780	988	2,560	e580	e260	812	1,640	1,310	445	700	6,390	978
18	1,530	944	3,520	e450	e260	736	1,460	1,190	644	712	4,530	38,000
19	1,530	1,410	3,140	e450	e250	667	1,390	1,090	502	821	3,710	21,600
20	1,530	12,300	3,040	e450	e250	618	1,280	865	431	733	2,740	10,400
21	1,370	9,130	2,510	e450	e240	e610	1,170	838	406	602	2,850	6,160
22	1,260	6,420	2,190	e440	e240	e620	1,050	751	398	540	2,700	4,250
23	1,130	4,810	2,030	e430	e240	633	1,200	747	394	800	2,100	3,200
24	1,010	3,840	7,930	e420	e230	696	1,360	747	366	1,620	1,720	2,700
25	902	3,640	12,600	e400	e220	766	1,110	881	350	854	1,640	2,010
26	830	3,060	8,130	e400	e230	926	2,140	847	509	682	1,480	1,770
27	5,970	2,620	5,800	e390	e240	2,260	3,000	2,190	462	2,310	1,310	1,550
28	11,300	2,690	4,450	e390	e250	2,830	2,670	2,340	e370	3,600	1,100	2,780
29	14,800	6,550	3,610	e370	e260	2,370	2,590	2,010	e340	3,430	1,140	4,770
30	13,700	5,370	3,270	e360	---	1,910	2,350	1,620	e320	2,000	1,070	3,810
31	8,520	---	3,160	e360	---	1,700	---	1,350	---	1,500	1,550	---
TOTAL	101,081	101,452	115,122	36,580	8,010	44,934	47,951	43,756	21,048	28,217	71,612	118,459
MEAN	3,261	3,382	3,714	1,180	276	1,449	1,598	1,411	702	910	2,310	3,949
MAX	14,800	12,300	12,600	3,530	350	4,630	3,000	2,340	1,970	3,600	9,630	38,000
MIN	736	944	864	360	220	290	745	747	320	330	552	505

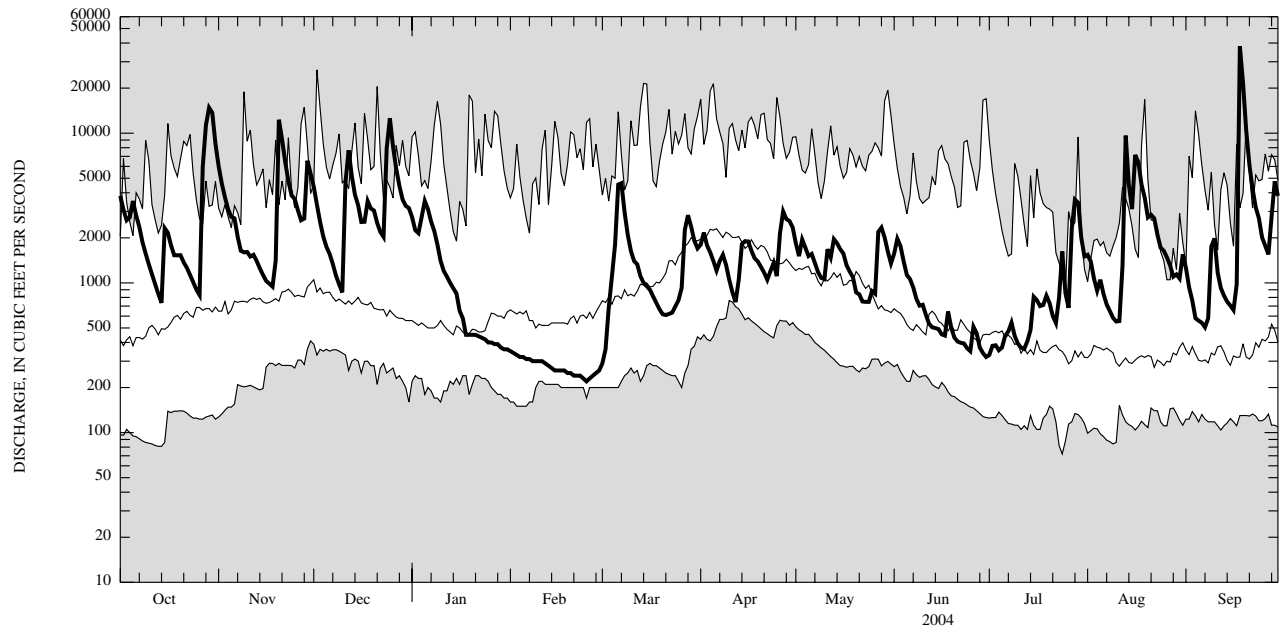
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2004, BY WATER YEAR (WY)

	MEAN	829	1,146	1,200	955	965	1,648	2,520	1,503	865	534	511	652
MAX	3,261	3,382	5,017	2,931	3,297	4,239	5,957	3,465	2,426	1,750	2,310	3,949	
(WY)	(2004)	(2004)	(1997)	(1978)	(1976)	(1977)	(1993)	(1984)	(1973)	(1996)	(2004)	(2004)	
MIN	163	311	404	277	213	578	808	432	229	157	136	139	
(WY)	(1974)	(1999)	(1961)	(1981)	(1980)	(1970)	(1985)	(1987)	(1977)	(1966)	(1965)	(1972)	

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1955 - 2004	
ANNUAL TOTAL	777,920		738,222		1,110	
ANNUAL MEAN	2,131		2,017		2,017	
HIGHEST ANNUAL MEAN					604	
LOWEST ANNUAL MEAN					38,000	
HIGHEST DAILY MEAN	14,800	Oct 29	38,000	Sep 18	38,000	Sep 18, 2004
LOWEST DAILY MEAN	350	Feb 1	220	Feb 25	72	Jul 24, 1964
ANNUAL SEVEN-DAY MINIMUM	384	Jan 28	234	Feb 21	84	Oct 9, 1954
10 PERCENT EXCEEDS	4,660		3,850		2,460	
50 PERCENT EXCEEDS	1,330		1,260		646	
90 PERCENT EXCEEDS	459		360		232	

e Estimated



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.  
 SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

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## WATER-QUALITY RECORDS

## PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 2001 to current year.

INSTRUMENTATION.--Water-temperature satellite and telephone telemeter provides 15-minute-interval readings.

REMARKS.--Interruptions of record were due to malfunction of recording instrument.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 2002-03), 28.5°C, Aug. 1, 2002; minimum, 0.0°C on many days during winter periods.

## EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 25.0°C, June 16, but may have been higher during period of instrument malfunction; minimum, 0.0°C on many days during winter period.

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	14.5	13.0	14.0	11.0	10.0	10.5	5.5	4.5	5.0	3.5	2.5	3.0
2	14.0	11.5	13.0	11.0	10.5	11.0	4.5	2.5	3.5	3.5	2.5	3.0
3	13.0	11.0	12.0	12.0	10.5	11.5	2.5	1.0	1.5	4.5	3.0	4.0
4	12.5	10.5	11.5	11.5	11.0	11.5	2.0	0.5	1.5	4.5	4.0	4.5
5	12.0	10.0	11.0	11.0	10.5	11.0	2.5	1.0	2.0	4.0	3.0	3.5
6	11.5	10.0	11.0	11.0	10.0	10.5	2.0	0.5	1.0	3.0	0.5	2.0
7	12.0	10.0	11.0	10.0	9.0	9.5	0.5	0.0	0.5	1.0	0.0	0.0
8	12.5	10.0	11.5	9.0	5.5	7.0	0.5	0.0	0.0	0.5	0.0	0.0
9	14.0	11.0	12.5	5.5	4.0	5.0	1.5	0.0	1.0	0.5	0.0	0.0
10	14.5	12.5	13.5	5.5	3.5	4.5	4.0	1.5	2.5	0.0	0.0	0.0
11	---	---	---	5.0	4.5	4.5	5.0	3.5	4.5	0.0	0.0	0.0
12	---	---	---	7.5	5.0	6.0	4.0	3.0	3.5	1.0	0.0	0.5
13	---	---	---	8.0	5.0	7.0	3.0	2.5	3.0	1.5	0.0	1.0
14	---	---	---	5.0	3.0	3.5	2.5	0.0	1.5	0.0	0.0	0.0
15	---	---	---	4.0	2.5	3.0	2.0	0.0	1.0	0.0	0.0	0.0
16	---	---	---	4.5	3.0	3.5	2.5	1.5	2.0	0.0	0.0	0.0
17	---	---	---	6.0	4.5	5.0	3.5	2.5	3.0	1.0	0.0	0.5
18	---	---	---	7.0	5.5	6.0	3.0	2.0	2.5	1.0	0.0	0.5
19	---	---	---	9.5	7.0	8.0	3.0	2.0	2.5	0.5	0.0	0.0
20	---	---	---	9.0	7.0	8.0	3.0	2.0	2.5	0.0	0.0	0.0
21	---	---	---	7.5	6.5	7.0	2.5	1.5	2.0	0.0	0.0	0.0
22	---	---	---	8.0	7.0	7.5	3.0	1.5	2.0	0.0	0.0	0.0
23	---	---	---	7.5	6.5	7.0	4.5	3.0	3.5	0.0	0.0	0.0
24	---	---	---	8.0	7.0	7.5	4.0	3.0	3.5	0.0	0.0	0.0
25	---	---	---	7.5	6.0	6.5	4.5	3.5	4.0	0.0	0.0	0.0
26	---	---	---	6.0	5.0	5.5	4.0	3.0	3.5	0.0	0.0	0.0
27	---	---	---	6.5	5.5	6.0	4.0	3.5	3.5	0.0	0.0	0.0
28	---	---	---	7.5	6.5	7.0	3.5	2.5	3.0	0.0	0.0	0.0
29	10.0	9.0	9.5	7.5	5.0	6.5	3.5	2.5	3.0	0.0	0.0	0.0
30	10.5	9.5	10.0	5.5	4.5	5.0	4.0	3.0	3.5	0.0	0.0	0.0
31	10.5	9.0	10.0	---	---	---	4.0	3.0	3.5	0.0	0.0	0.0
MONTH	---	---	---	12.0	2.5	7.1	5.5	0.0	2.6	4.5	0.0	0.7

01420980 EAST BRANCH DELAWARE RIVER ABOVE READ CREEK AT FISHS EDDY, NY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	0.5	0.0	0.0	6.5	6.0	6.0	13.5	10.0	12.0
2	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.5	5.5	13.5	12.5	13.0
3	0.0	0.0	0.0	0.0	0.0	0.0	6.5	5.0	6.0	13.5	9.5	11.5
4	0.0	0.0	0.0	0.5	0.0	0.0	6.0	4.5	5.5	11.5	8.0	10.0
5	0.0	0.0	0.0	1.0	0.0	0.5	4.5	2.5	3.5	10.0	8.0	9.0
6	0.0	0.0	0.0	1.5	0.0	0.5	5.5	1.0	3.5	13.0	7.5	10.5
7	0.0	0.0	0.0	3.0	1.5	2.0	6.0	4.0	5.0	15.5	11.5	13.0
8	0.0	0.0	0.0	3.0	2.0	2.0	5.5	4.5	5.0	13.0	11.0	12.0
9	0.0	0.0	0.0	3.5	1.5	2.5	8.0	4.5	6.0	12.5	10.0	11.5
10	0.0	0.0	0.0	4.5	2.0	3.0	7.5	4.5	6.0	15.5	11.0	13.0
11	0.0	0.0	0.0	5.0	1.5	3.5	7.5	5.0	6.5	17.5	13.5	15.5
12	0.0	0.0	0.0	4.5	2.0	3.0	8.5	6.0	7.0	17.5	14.5	16.0
13	0.0	0.0	0.0	2.5	0.5	1.5	7.5	6.5	7.0	17.0	14.0	15.5
14	0.0	0.0	0.0	2.5	0.0	1.5	7.5	6.5	7.0	17.5	15.0	16.0
15	0.0	0.0	0.0	4.5	2.0	3.0	9.0	5.0	7.0	18.5	15.5	17.0
16	0.0	0.0	0.0	3.5	0.5	2.0	9.0	5.0	7.0	17.5	15.0	16.0
17	0.0	0.0	0.0	2.0	0.0	1.0	10.0	6.5	8.5	18.5	14.0	16.0
18	0.0	0.0	0.0	2.5	0.5	1.5	11.5	8.5	10.0	19.0	16.0	17.5
19	0.0	0.0	0.0	3.5	1.0	2.0	13.5	9.5	11.5	19.0	16.0	17.0
20	0.0	0.0	0.0	3.5	0.5	2.0	13.0	10.5	12.0	18.0	14.0	16.0
21	0.0	0.0	0.0	3.5	1.5	3.0	12.5	9.5	11.0	19.0	16.0	17.5
22	0.0	0.0	0.0	3.0	0.0	1.5	14.0	10.5	12.0	20.5	16.5	18.0
23	0.0	0.0	0.0	2.5	0.0	1.0	12.5	9.5	11.0	21.0	17.5	19.0
24	0.0	0.0	0.0	6.0	1.0	3.5	13.0	8.5	10.5	22.5	18.0	20.0
25	0.0	0.0	0.0	5.5	4.5	5.0	11.0	7.5	9.0	20.0	17.5	18.5
26	0.0	0.0	0.0	7.5	4.0	6.0	8.0	7.0	7.5	18.5	16.0	17.0
27	0.0	0.0	0.0	7.0	5.5	6.0	10.0	7.5	9.0	19.0	15.5	17.0
28	0.0	0.0	0.0	8.0	4.5	6.5	9.5	6.5	8.0	18.0	15.5	16.5
29	0.5	0.0	0.0	8.0	4.5	6.5	11.5	6.5	9.0	16.0	13.0	14.5
30	---	---	---	8.0	4.5	6.5	12.5	8.5	10.5	16.5	11.5	14.0
31	---	---	---	7.0	6.0	6.5	---	---	---	14.5	12.0	13.0
MONTH	0.5	0.0	0.0	8.0	0.0	2.7	14.0	1.0	7.8	22.5	7.5	14.9
	JUNE			JULY			AUGUST			SEPTEMBER		
1	15.0	12.0	13.0	---	---	20.0	---	---	19.5	---	---	16.5
2	15.5	13.5	14.5	---	---	21.5	---	---	20.5	---	---	17.0
3	17.0	13.5	15.0	---	---	21.0	---	---	21.0	---	---	17.5
4	17.5	13.0	15.5	---	---	20.5	---	---	21.5	---	---	19.0
5	15.5	13.0	14.0	---	---	21.0	---	---	19.5	---	---	18.0
6	13.0	12.5	12.5	---	---	20.0	---	---	17.0	---	---	---
7	18.5	12.5	15.0	---	---	19.5	---	---	16.5	---	---	---
8	22.0	16.0	18.5	---	---	20.5	---	---	17.0	---	---	---
9	23.0	18.0	20.5	---	---	19.5	---	---	18.5	---	---	---
10	21.5	17.5	19.5	---	---	19.5	---	---	19.5	---	---	---
11	20.0	15.5	17.5	---	---	20.5	---	---	21.0	---	---	---
12	21.5	14.5	18.0	---	---	19.5	---	---	20.0	---	---	---
13	18.5	16.0	17.5	---	---	18.0	---	---	16.5	---	---	---
14	18.0	16.0	17.0	---	---	17.5	---	---	16.5	---	---	---
15	22.5	16.5	19.5	---	---	17.5	---	---	16.5	---	---	---
16	25.0	19.5	22.0	---	---	18.0	---	---	16.0	---	---	---
17	23.0	20.5	21.5	---	---	19.5	---	---	17.5	---	---	---
18	22.5	19.5	21.0	---	---	18.0	---	---	19.5	---	---	---
19	22.0	18.5	20.5	---	---	17.5	---	---	17.0	---	---	---
20	20.5	15.5	18.0	---	---	19.0	---	---	17.0	---	---	---
21	22.0	15.0	18.5	---	---	20.5	---	---	16.0	---	---	---
22	19.0	17.5	18.0	---	---	22.0	---	---	16.0	---	---	---
23	23.0	16.5	19.0	---	---	21.5	---	---	17.0	---	---	---
24	24.0	17.5	20.5	---	---	19.5	---	---	18.0	---	---	---
25	21.0	19.0	20.0	---	---	19.0	---	---	17.0	---	---	---
26	22.0	18.0	19.5	---	---	18.5	---	---	15.0	---	---	---
27	21.0	16.5	18.5	---	---	16.0	---	---	14.5	---	---	---
28	---	---	---	---	---	16.0	---	---	17.0	---	---	---
29	---	---	---	---	---	17.5	---	---	18.0	---	---	---
30	---	---	---	---	---	18.0	---	---	17.5	---	---	---
31	---	---	---	---	---	19.0	---	---	17.5	---	---	---
MONTH	---	---	---	---	---	19.2	---	---	17.8	---	---	---